RURAL DISTRICT COUNCIL

OF

DARTFORD.

ELEVENTH

ANNUAL REPORT

FOR

→ 1909. ☆

BY

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Medical Officer of Health.

RURAL DISTRICT OF DARTFORD, 1909.

Area of District, 38,891 acres.

Parishes, 17.

Buildings £193,786.

Rateable value, £220,110. Land £26,324.

Assessable value, £208,466.

Population,—Census 1901, 37,532. Estimated for 1909, 42,111.

Number of inhabited houses,—Census 1901, 6,609.

,, ,, families, 6,886.

Average number of persons per house, 5.

Density of population, 9 persons per acre.

Crude death rate, 9.9 per 1,000.

Corrected death rate, 8.7 per 1,000.

Birth rate, 22.6 per 1,000.

Infantile Mortality, 68 per 1000. The average for ten previous years being, 129.

Death rate from Zymotic diseases, 0.7 per 1,000.

- " ,, for Scarlet Fever, 0.09. Diphtheria, 0.14.
- ,, ,, Enteric Fever, 0.04. Phthisis, 0.76.
- " ,, Cancer, 0.7. Diseases of Respiration, 1.04.

RURAL DISTRICT COUNCIL OF DARTFORD.

Eleventh Annual Report of the Medical Officer of Health for the year 1909.

THE RURAL DISTRICT OF DARTFORD comprises 17 parishes, viz. (Ash, Fawkham, Hartley, Kingsdown, Longfield, Ridley, Southfleet)—(Crayford, Wilmington, Darenth)—(Stone, Swanscombe)—(Sutton-at-Hone, Eynsford, Farningham, Horton Kirby, and Lullingstone), which, with the Urban Districts of Dartford, Erith and Bexley constitute the Dartford Union.

Population.—The total population of the Union at the time of the Census in 1901 was 96,051, viz.: Dartford, 18,644; Erith, 25,296; Bexley Heath with East Wickham, 14,579; and the Rural District, 37,532 (now 42,111).

Characteristics of the District.—Like the rest of Kent the Rural District is hilly, with shallow valleys intersecting one another mostly running north and south, of which the chief is the Darenth Valley, through which runs the river Darent in its course to the Thames, whilst the Cray unites with the Darent below Dartford. Flowing in the same direction through the chalk, there is also a considerable underground stream of water, from which the Kent Water Company, now the London Water Board, derives its supplies by means of numerous wells and pumping stations, several of which are within the Rural District. Fruit and vegetables are the main agricultural industries. A few years back Swanscombe and Southfleet had numerous Hop Fields, but only a few are now left in Southfleet, all those in Swanscombe having been ploughed up, as well as many in Southfleet.

Area.—The area of the Rural District is 38,890 acres, and the estimated population is now (1909) 42,111. Its outline forms an irregular square of about ten miles in each direction, and the Thames bounds it towards the north.

It is divided into three registration districts: The *largest*, the Farningham District, about 3,000 acres in extent, is entirely rural, and has a population of about 18,000 with 3,000 houses. The *smallest*, the parish of Crayford, has 2,455 acres, with a population of about 7,000, and

about 1,300 houses, consisting of the old town of Crayford on the River Cray, and another portion immediately adjoining Erith, the North End or Slades Green, a populous district, which has sprung up in recent years. The *third*, Stone and Swanscombe, about 5,000 acres, has a population of over 12,000, with some 2,200 houses. These two parishes skirt the River Thames, and are the centre of some of the largest cement works in Kent.

Administration.—Eleven years ago I was appointed Medical Officer of Health for the whole District.

At that time the District was divided into four sub-districts:—No. 1, Longfield; No. 2, Crayford; No. 3, Stone and Swanscombe; No. 4, Sutton-at-Hone.

In 1900 Crayford was sewered, and Sutton-at-Hone and Crockenhill in 1908-9.

No. 1, Longfield, the largest, is entirely rural, including the parishes of Ash, Fawkham, Hartley, Kingsdown, Longfield, Ridley, and Southfleet, comprising 17,590 acres, with the small population of 3,466. In 1907 these parishes elected to discontinue scavenging and cesspool emptying under the Council, and to let each householder arrange for this work at his own expense; the old vans and tackle being left for the public use in charge of a conjoint committee. This plan has answered well and we have had no complaints.

No. 2, Crayford, has an acreage of 6,500, and a population of nearly 12,000, is sewered, and all outlying cesspools, together with the scavenging, are attended to by Sanitary vans and carts, the expense being defrayed out of the rates, whilst Wilmington and Darenth are worked by contract.

No. 3, Stone and Swanscombe together have an acreage of 5,150, and have a population of 12,100. For the past two years the cesspool emptying and scavenging have been carried on by the Council without any contract; stables have been erected and they have their own men and horses.

No. 4, Sutton-at-Hone sub-division, including the parishes of Sutton, Horton Kirby, Farningham and Eynsford with Lullingstone, has an acreage of 14,000, with a population of 11,700.

The sewering of Sutton and Crockenhill is now complete, and most of the bye roads have also been connected, which should contribute largely to the already very healthy record of this group of parishes. Few can show better health statistics, the death rates being for Sutton 10.8; Eynsford, 5.9; and Horton Kirby, 8.3; with equally low figures for Infectious Diseases.

I must not omit to note also the very low death rates for the large parishes of Stone, Swanscombe and Crayford, viz.:—Stone, 9'3; Swanscombe, 7'5; and Crayford, 9'5; with only 5'4 for Wilmington.

I think these low death rates are the outcome of the work done during past years in improving the Sanitary condition of the whole District, and afford the opportunity of recalling my remarks, given in last year's report.

In the year 1898, owing to the wide prevalence of Diphtheria throughout the Rural District, the Local Government Board urged the appointment of one Medical Officer instead of four, as had hitherto been the case, for the more efficient control of the Sanitary conditions, and I was the selected candidate.

Eleven years having elapsed since my appointment, I now again venture to give a summary of that report and the conclusions that may be drawn from it, as the figures there given are fully confirmed by another year's work.

The widespread insanitary conditions existing in 1900 are fully detailed in Dr. Sweeting's Report, but Dr. Darra Mair, on his recent visit of inspection in 1907, was able to make a very different statement, and he says "there can be no doubt that the Sanitary condition of the district has been much improved."

These improved Sanitary conditions are fully borne out and confirmed by the following table, which shows not only that the death rates have progressively fallen from 14.3 to 8.7, a rate which is so low that it is hardly possible to expect it to be further reduced for so large a district, but also that the number of cases of Infectious Disease (especially as regards Diphtheria), has been greatly lessened, and this is well shown by taking the two periods of six years, 1897 to 1902, and 1903 to 1908, and comparing the average number of notifications and deaths during each period. In the first period, the average numbers are 156 notifications and 25 deaths, whilst in the latter they fell to 42 and 8. The same is the case for Enteric Fever and Erysipelas. All these diseases are specially related to foul surroundings and insanitary conditions.

Such a continuous and steady fall in the death rate from year to year, together with the large diminution in the number of notifications, as well as in the mortality from these Infectious Diseases, clearly proves that the decrease is not accidental, and may fairly be ascribed to improved Sanitation; hence with a death rate reduced to 8.7 I may claim for my Inspectors and myself that our work, as shown by actual results, has been well and successfully performed.

This large reduction in the number of Infectious cases also implies a corresponding diminution in the numbers treated in Hospital, the proportion being 65 to 28 per annum, consequently there must be a considerable pecuniary saving to the ratepayers, by lessened Hospital expenditure.

1	F	OPULATION.	3	Number of	D	IPHTHERI	A	Fina	ERIC FE	VER	Ervsi	PLEAS.
			Death Rates.	Infectious Cases Notified.	Cases.	Deaths.			Deaths.			Deaths.
	1891	30190										
	1892	33368		434	51	2		26	2		108	4
	1893	34015		434	43	14	0.4	14	2		99	4
	1894	34662		234	78	9	0.26	20	4		67	3
	1895	35309		328	212	35	0.97	17	3		75	3
	1896	35956	-	532	212	35	0.97	17	3	_	75	3
	1897	36603	14.5	571	154	22	0.6	14	5	0.14	62	2
Years.	1898	37250	15.1	342	159	38	1.2	32	6	0.16	70	2
/ /	1899	37897	14'3	389	166	29	0.76	56	9	0.25	59	1
Six	1900	38544	13°2	387	128	21	0.2	45	8	0.22	62	5
First	1901	39193	14.5	379	178	24	0.61	45	9	0.25	47	3
	1902	38080	13.7	431	107	15	0.39	46	15	0.32	46	2
	1903	38739	10.2	203	53	8	0.2	32	6	0.15	47	0
Years.	1904	39305	11'3	218	36	5	0.12	41	6	0.15	39	0
1	1905	39881	10.1	271	44	10	0.25	35	8	0.2	32	0
Six	1906	40371	11.8	300	34	5	0.12	14	0	_	36	1
Last	1907	40984	9.4	413	17	3	0.17	8	0		32	2
	1908	41525	9.9	245	41	6	0.14	45	5	0.12	25	0
		Averages of Six Years, 1897 to 1902			156	25	0.68	40	10	0.16	58	2.2
		ges of last Six Y	274	42	8	0.12	29	4	0.04	35	0.2	
	1909	42111	8.4	215	56	6	0.14	9	1	0.03	30	1.9

Bye-Laws.—New Bye-laws will shortly be issued, compiled from the model Bye-Laws of the Local Government Board, with special regulations applying to the outlying parishes.

Fruit-Pickers' Huts, Barns, Tents and Caravans.—I can again report that the hut question has given very little trouble, as their sanitary conditions have been closely watched by the Inspectors, but in consequence of the wet summer many of the tent dwellers suffered rather severely from exposure to the damp and rain,

Abatement of Nuisances and Inspection of the District.—The reports of the Inspectors (see end) give a summary of their work. They frequently accompany me on my rounds, making house to house inspections.

During the past year few important sanitary matters have come before the Council. The following are some of the most important:—

The sewering of Sutton-at-Hone has been completed, and the greater number of possible connections have been made. Arrangements have at last been completed for redraining Courtney Avenue, and the work will be commenced forthwith. In Crayford we have had subsidence of the sewer in several places, partly from the faulty construction, but also from the sandy nature of the soil. The drainage of Bowron's Tan Yard has been connected with the West Kent Sewer, which will put an end to the pollution of Stanham river.

The nuisance from the cartage of London refuse has been largely abated by the closing of Pinden last May by order of the Court, but it has again been started further up the valley at Longfield siding, which is the property of the NewingtonVestry, and being kept remarkably clean is no nuisance, but the S.E. and C. Railway have a line, alongside of which Messrs. Martin are now carting the refuse. So far the stuff has been brought for agricultural purposes and is being deposited in large heaps, which in due time will be ploughed in. These heaps are somewhat offensive when first deposited, but there are only two or three houses immediately adjacent.

Smoke Nuisance.—The smoke nuisance at Swanscombe has been largely abated by the erection of lofty chimneys at White's works, but at Greenhithe it is very great from the new chimneys not being of a sufficient height, consequently the surrounding houses are almost uninhabitable, vegetation is almost destroyed and the health of the inmates is affected.

Unmade Roads.—Several unmade roads in Swanscombe and Stone are in a deplorable condition, these are all short bye-roads and would cost little to make up, but unfortunately it is nobody's business to attend to these matters, unless they can be pronounced injurious to health. The Chase, at Greenhithe, is now being made up, and a road at Longfield will probably be dealt with next, but some others at Swanscombe should be immediately taken in hand, more especially as the cost will be trivial.

Water Supply.—We have very few wells, except in outlying places, where the houses are too few to pay for laying the mains. This applies to Ridley, a very small parish, where there are no wells, and rain-water tanks constitute the only supply, otherwise the district is supplied by the Metropolitan Water Board and the Mid Kent Water Co.

The Milk Supply.—The milk is slightly better than it was a few years back, but we have no control over this all important article of food, which is left to the charge of the police to take samples from to time; no report is forthcoming, if any is made, consequently the quality varies very considerably between the raids of the Inspector.

This is a matter as to which the County Medical Officer might give special attention. Much of the milk is imported, which is a certain amount of guarantee, as it has probably already been under supervision.

Factory and Workshop Act.—We have no indoor Factories or Workshops where several hands are employed, and all our Factories are under the supervision of the Factory Inspector. The sanitary condition of the existing Factories and Workshops are satisfactory. They are kept under close supervision by the Inspectors, no diffictly being experienced in having defects remedied.

There are several large Paper Mills, also two Steam Laundries, all of which are well provided with the necessary conveniences, and are kept clean and in good order.

There are 44 Bakehouses in the district, of which 5 are underground, and all are certified. They are all in a satisfactory state, well lighted and kept regularly whitewashed.

Home Work.—We have only two Millinery and Dressmaking establishments, where two or more hands are employed, and no Home work is carried on.

Each Inspector keeps a register of all Factories, Workshops, and Workplaces, for his own district.

Summary of the Official Statistical Tables in connection with Factories, Workshops, and Home Work.

1.—Inspections.

			Number of						
Particulars.			Inspections.	Written Notices.	Prosecutions.				
Factories (Including Factory Laundries)	•••		33	I					
Workshops (Including Factory Laundries)	•••	• • •	50	7					
Workplaces	•••		63	Assessments	Anapara-				
	Total	•••	146	8					

2.—Defects Found.

			Number o	f Defects.	
		Found.	Remedied.	Referred to H.M. Inspector.	Prosecutions. Number of
Nuisances under Public Health Acts-					
Want of Cleanliness		2	2	_	
Want of Drainage of Floors		I	I		_
Other Nuisances		4	4	manage day	_
Sanitary accommodation unsuitable, not separate for sexes		I	I		
Offences under Factory and Workshop Ac	t	-		-	
Breach of Special Sanitary Requirements for Bakehouses		I	I		
Total		9	9		_

3.—Home Work. None.

4.—R	egis	tered	Wo	orksho	op	S.	5.—Other Matters.						
Workshops	on Re	gister a	at end	of Year.	,	Number.	Class.	Number.					
Laundries Bakers Dressmakers Others	•••	•••	•••	•••	• • •	45	Matters notified to H.M. Inspector of Factories Action taken in matters under Public Health Act Notified to H.M. Inspector Underground Bakehouses in use at end of year	I					
				Total	•••	113	Total	6					

Population (42111).

During the past year there have been 952 births and 366 deaths, which gives 586 as the natural increase of population from the excess of births over deaths, and brings the number up to 42111.

Last year I estimated the population of the rural district at 41525.

The following is a list of the Public Institutions in the District, and the annexed table gives the average number of Inmates:—

Name of Institution.	Inmates.	Staff (Inside).	Staff (Outside).	Total.
letropolitan Imbecile Asylum, Darenth ity of London Mental Hospital, Stone private patients	1908 287 (294)	220 92	137	2265 744
arkwood Convalescent Home, Horton Kirby, near	537	235	26	798
Swanley	91	29	15	135
Swanley Junction ittle Boys' Home, Hextable ,, ,, South Darenth White Oak Schools Ophthalmic Hospital, Swanley	58 168 300	18 18 40	4 9 12	80 195 352
Junction t. Mary's Home, Stone Arethusa" Training Ship for Boys (off Greenhithe) Warspite," Marine Society's Ship for Boys (off Stone) Worcester" Training College, Mercantile Marine (off	300 53 230 240	64 14 2 4	24 3 18 11	388 70 250 255
Greenhithe)	156	40		196

The following Table gives the area, etc., of each Parish in Acres, Inhabited Houses, Population, Persons per Acre, Persons per House, Births, Deaths, Families per House, and Death Rates.

th Rate.	Deg	16.2 8.9 8.9 6.5 9.9 13.1	9.5.6 4.6.6	9.3	10.8 8.3 8.8 8.8 12.9	8.7	
year. Jear	-	1 1 2 4	F-403	111	r- co ∞ co ro	89	
Families.	to.oV	103 133 14 63 55 129 227	1314 433 211	1375 889	912 305 15 427 281	9889	
.sdtri	B	7 1 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	162 47 26	187	156 39 — 51 51	952	
esths.	Deaths.		72 12 12	59	57 17 17 17 18	998	
steons.			5.0 4.0 4.8	6.0	6.0 6.4 6.4 7.5 7.4	5.4	
rs ber acre	Person	.17 .19 .07 .23 .23 .23	2.67 1.12 .41	3.2	1.77 .66 .06 .56	6.	
1901.	Fems	248 290 31 130 146 300 538	3109 947 1796	3217 2502	2361 780 51 518 967 449 671	18084	
	[sM]	258 318 33 154 130 317 573	3463 985 1697	3758 2629	2289 1104 46 571 1037 466 657	19448	
	1910	554 676 72 314 307 730 1221	7512 2204 3614	7851 6008	5277 2041 113 2187 1430	42111	
ation.	1901	506 608 64 284 276 617 1111	6572 1932 3493	6975 5131	4650 1884 97 1089 2004 915 1328	37532	
Population	1891	412 619 86 272 232 498 968	5268 1722 2801	6577	3847 1551 64 892 1841 949 879	32721	
	1881	411 632 65 251 287 328 922	4347 1388 700	4541 2550	2063 1541 73 820 1700 830 892	22649	
of ouses.	1901	99 128 14 63 55 128 222	1272 402 191	1329 852	879 314 15 190 404 214 242	6099	
Number of Inhabited Houses	1891	85 139 15 56 53 99 202	1045 352 155	1194 590	691 274 13 182 376 194 165	5494	
Inhal	1881	81 159 15 62 62 46 63 190	872 277 146	720	403 247 11 332 — 159	4109	
reage.	oΑ	2813 3074 834 1211 1198 605 2409	2455 1718 2223	2141	3625 2841 1557 3544 2739	37996	
essable alue.	$_{ m SV}$	£ 2,135 2,367 2,367 4,116 1,448 5,433 5,339	30,939 11,695 24,264	37,524 25,560	35,015 13,145 2,138 9,603 6,053	217,227	
PARISHES. 1909. Kingsdown Ash Ridley Hartley Fawkhan Longfield Southfleet		: : : : :	Crayford Wilmington Darenth	Swanscombe Stone	Sutton-at-Hone Horton Kirby Lullingstone $Crockenhill$ Eynsford $Eynsford$ Farningham	Totals 2	
SUB-DISTRICTS. 1909. LONGFIELD. Mr. Longhurst. Acreage 12,144. Population, 3,874.		No. 11. CRAYFORD. Mr. Miles. Acreage, 6,396. Population, 13,330.	No. III. SWANSCOMBE. Mr. Caffyn. Acreage, 5,150. Population, 13,859.	No. IV. SUTTON-AT-HONE. Mr. Tiley. Acreage, 14,306. Population, 11,048.			

39193 (including East Wickham.)

Births (952).

There were 952 births (478 males and 474 females), a decrease of only two on 1908. This is the smallest number recorded for the rural district, being nearly 100 below the average of the past ten years, and this decrease amounts to about 10 per cent of all births.

Of these 952 births, 18 were illegitimate, equal to 1.8 per cent.

The following table gives the births for each quarter:—

				ıst Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total.
Males Females	•••	•••	• • •	122	107 128	125	124	478 474
		Total	•••	251	235	227	239	952

Birth Rate (22'6).

The Birth rate for the year 1909 is 22.6, whilst that for England and Wales is 25.6 per 1,000 of the population, and lower than any year on record.

The Birth rate for the Dartford Urban District is 25.8.

The following table gives the Birth and Death rates for the past ten years:—

Year.	Birth Rate per 1000	Death Rate per 1000
1900	28.3	13.5
1901	27.9	14.2
1902	29°2	13.7
1903	27°2	10.5
1904	25 ° 9	11.2
1905	24.5	10.1
1906	23.8	11.8
1907	24.4	9.4
1908	22°9	9.9
1909	22.6	8.7
Average for 10 years.	25°5	11.3

Deaths (366).

During 1909, 418 persons were registered as dying within the district (208 males, 210 females) and 58 (34 males, 24 females), in Public Institutions outside, viz., the Workhouse and Hospitals.

These figures are less than last year, when the number was 448. Of these deaths 110 occured amongst persons not belonging to the district, patients in the following institutions, viz.:—Darenth Asylum, 73, Gore Farm Hospital (Scarlet Fever) 8, City of London Asylum 29—110.

These 418 deaths represent the total number registered within the Rural district, but to arrive at the exact or corrected number of deaths, 110 non-residents have to be deducted, whilst 58 residents belonging to the various parishes, who died in the Public Institutions outside the district, have to be added, viz., in Dartford Workhouse Infirmary, 44, Bow arrow Hospital, 9, and Livingstone Cottage Hospital, 5; hence, after deducting 110 from 418 and adding 58 we have 366 as the corrected number of deaths.

The deaths for each quarter were us follows:—

Quarter ending.	31st March	30th June	20th Sept.	31st Dec.	Totals.
Whole District	105	87	65	88	345
Public Institutions within the District	21	20	10	22	73
Total	126	107	75	IIO	418
Public Institutions with- out the District	17	15	15	II	58
				Total	476

Death Rate (8'7).

418 deaths, with a population of 42111, gives a gross death rate of 9.9, but the corrected number of deaths, 366, gives the true death rate, which is 8.7.

The death rate for Dartford Urban District is 10.68, whilst that for England and Wales (rural) is 13.6 per 1000.

The death rates for the following Constitutional and Infectious diseases are: for all Tuberculous Diseases, 1.02: for Phthisis, 0.76: Cancer, 0.7: Scarlet Fever, 0.09: Diphtheria, 0.14: Enteric Fever 0.02.

Infant Mortality.

		1909	1908	1907	1906	1905
The deaths	of infants under 1 year were	68	93	96	133	96
"	persons between I year and 60 were	131	211	150	187	177
"	,, 60 years and upwards were	167	109	141	153	131
	Totals	366	413	387	473	404

The rate of mortality of infants under I year was again remarkably low, viz.: 71'4 per 1000 births, the average rate for the past ten years being II4, whilst that for the rural districts of England and Wales was 98.

The infant death rate per 1000 deaths equals 185, and to the whole population is 1.6 per 1000.

The average number of deaths of infants under I year for the past IO years amounts to II9. The deaths of infants, under I year, for each quarter were:—

ıst Quarter	2nd Quarter	3rd Quarter	4th Quarter
12	18	21	17

The following table gives the causes and distribution of the 68 deaths of infants under one year:—

Diseases.	Ash.	Crayford.	Darenth.	Eynsford.	Farningham.	Hartley	Horton Kirby.	Longfield.	Southfleet,	Stone.	Sutton-at-Hone.	Swanscombe.	Wilmington.	Totals.
Influenza	-				_				1					1
Whooping Cough											1			1
Diarrhœa		2		2	1				1		1	1		8
Bronchitis	1	1			1			1	-	2		2	1	9
Pneumonia			_					1			<u></u>		1	2
Premature Birth		3	1	2	2	1	3		2	5	2	4	1	26
All other Diseases		1	1		1		-			9	3	5	1	21
Totals	1.	7	2	4	5	1	3	2	4	16	7	12	4	68

PART II (A).

DEATHS FROM CONSTITUTIONAL CAUSES.

Phthisis.—Pulmonary Consumption causes 32 deaths, and other Tubercular Diseases 11, altogether 43 deaths from Tubercular complaint.

The death rate from Phthisis is 0.76 per 1,000 population, and for all Tubercular Diseases 1.02 per 1,000.

The Local Government Board have issued an order for the notification of all pauper cases of Consumption. This notification will be strictly private, and will doubtless prove the stepping stone for the more general notification of all Consumptive cases. This is the first acknowledgment of the duty, incumbent on our governing powers, of dealing with this, the greatest and most fatal scourge from which we all suffer in some degree, and I trust it will be speedily followed by an order for all Councils to make such provision for the isolation of and dealing with the wants of Consumptive patients at all stages of the diseases, as their circumstances may render necessary.

Since writing the above a Conference, convened by Dr. Howarth, the County Medical Officer, has been held at Maidstone, which was attended by nearly all the Medical Officers of the County, to consider the best method of promoting combined action in recommending the erection of a Sanatorium or Sanatoria for the County of Kent, for the treatment of cases of Consumption.

After a lengthened discussion it was unanimously decided that each Medical Officer should approach his Council with the view of obtaining combined action for the promotion of this object, and recommending that a commencement should be made by forming combined areas of several adjacent Sanitary Authorities, and that the County Medical Officer should draw up some scheme for this purpose.

The need of appropriate action was pointed out by the Medical Officer, who among other things alluded to the mortality from Phthisis, which in the County of Kent alone is responsible for nearly 1,000 deaths per annum, whilst the deaths from all the other Infectious Diseases together hardly amount to 800 per annum, and he pointed out that it is not asking too much of our Councils, who already, at a heavy expense, have almost universally established Hospitals for the isolation of Infectious Diseases, to combine in an endeavour to check the frightful mortality from Phthisis and other Tubercular Diseases. These combinations would be more extensive than those combined for dealing with the ordinary zymotics.

Cancer caused 30 deaths (10 males, 20 females), equal to 0.7 per 1,000, about the same as last year and about the average.

Diseases of Respiration.—These diseases, including Bronchitis, Pneumonia and Pleurisy, caused 44 deaths, equal to 1.64 per 1,000, which is much below the average.

Uncertified Deaths.—Two deaths were registered as uncertified.

There were 17 deaths in the district among non-resident strangers, viz., 3 in huts, 3 in tents, 1 in a caravan, 2 from drowning in the Thames, and 7 in Public Institutions.

Inquests.—Coroners' Inquests were held in 36 cases, equal to 9.8 per cent. of all deaths and 0.8 per 1,000 population. Of these Inquests 21 were returned as from Natural causes; 5 were from accidents, and of these I was drowning, I from alcohol, and I infant was suffocated in bed; there were 3 suicides. Three of these were at the Workhouse, and there were three in the Asylum.

Zymotic or Infectious Diseases.—Notifiable.

Small Pox, Scarlet Fever, Diphtheria, Enteric Fever, Erysipelas and Puerperal Fever have all to be notified to the Medical Officer, either by Parent or Doctor.

During 1909 215 cases of Infectious Disease were notified, of which 56 were Diphtheria, 118 Scarlet Fever, 9 Enteric Fever, 30 Erysipelas, and 2 Puerperal Fever; of these 150 were admitted to the Isolation Hospital; there were also 52 others belonging to the Public Institutions.

During 1909 these various Infectious Diseases (excluding Phthisis) caused 31 deaths, against 79 in 1908, and correspond to a death rate of 0.7.

The Zymotic death rate for England and Wales for 1909 is 0.8.

These 215 notifications correspond with the average of the last six years, which when compared with the figures of the ten preceding years show a diminution of about half, and fully bear out the remarks I have already made as to the benefits resulting from the Sanitary improvements effected since 1899.

The cases of Scarlet Fever were again much less numerous than in 1908, whilst of Enteric Fever and Diarrhœa there were very few cases; on the other hand there were numerous scattered cases of Diphtheria.

(1).—Scarlet Fever.—118 cases were notified, of which 95 were transferred to Hospital. There were 4 deaths, giving a death rate of 0.09.

Scarlet Fever was very prevalent in London in 1908 and 1909, and our district suffered in the same way, the cases gradually becoming fewer towards Autumn.

Swanscombe was the only parish where there was any number of cases, but they were not sufficiently numerous to be considered an epidemic.

(2).—Diphtheria and Membranous Croup were responsible for 56 notifications, against 41 in 1908, and 17 in 1907; of these 40 were removed to Hospital. There were 6 deaths, giving a mortality of 10'7 per cent of all attacked, and a death rate of 0'14 per 1,000 population, the same as for England and Wales, viz., 0'14. There is nothing to comment upon in these cases, as they were distributed fairly equally throughout the district.

There were a few cases connected with the Southfleet School, but the disease never spread; no other outbreak was reported.

I have already referred to the gradual fall in the number of cases of Diphtheria year by year since 1899, also to the corresponding decrease in the death rates; the diminution in these Septic Diseases and in the death rates is so regular and spread over so many years that we may fairly attribute it to the improved Sanitary state of the district, which must be very noticeable to those who knew it some years ago.

Although the reduction in the number of cases may be ascribed to improved Sanitary conditions, the reduction in the number of deaths is largely due to the introduction of Antitoxin, for the mortality from Diphtheria has been so much reduced by the use of Antitoxin, which has proved so successful in the treatment of Diphtheria, that little hesitation is now felt by parents to its immediate use in nearly all cases.

It would be of considerable assistance and undoubted advantage if the County Public Health Department would undertake, for the various District Councils, the bacteriological examination of swabbings, taken from the throats of children suspected of infection from Diphtheria, and also any other bacteriological work associated with the prevention of disease. The distribution of Antitoxin might likewise be regarded as a County responsibility, and included in the duties of that department.

This is a school matter, which is most important and would probably be the means of checking many outbreaks of diphtheria, and thereby saving much expenditure in the treatment of these cases in Hospital.

- (3).—**Typhoid or Enteric Fever.**—Only 9 cases were notified, and of these 6 were removed to Hospital. There was one death, which gives the small death rate of 0.02 per 1000 population. The rate for England and Wales is 0.07.
 - (4).—Erysipelas.—30 cases were notified in the district, one death only.
 - (5).—Puerperal Fever.—Two cases occured, but neither was fatal.

PART II. (C).

Zymotic or Infectious Diseases—(Not Notifiable).

- (1).—**Measles**—Not being notifiable, I have no means of knowing how many cases have occurred. No deaths were reported. The district was remarkably free from measles, as well as all other infectious infantile diseases during the whole year.
- (2).—Whooping Cough occurred in a slight form in three or four parishes, but it never assumed an epidemic form. Three deaths were reported.
- (3).—Diarrhæa was even less prevalent than in 1908 or 1907, and only caused 12 deaths throughout the year. There is nothing to note except its almost complete absence.
- (4).—Influenza is gradually abating, at any rate in the severity of the cases. It caused 4 deaths.

The Annual Reports of the Sanitary Inspectors, as well as the Special Forms of Report, Tables I. to V., as supplied by the Local Government Board, are appended.

I have the honour to be,

Yours faithfully,

SYLVESTER RICHMOND, M.D.,

Medical Officer of Health.

INSPECTOR'S REPORT.

For the Year ended 31st December, 1909.

			District No. 1.	District No. 2.	District No. 3.	District No. 4.
			Mr. Longhurst.	Mr. Miles.	Mr. Caffyn.	Mr. Tiley.
1.	Complaints received and investigated, and rances abated	nuis-	18	Constant.	81	27
2.	Inspection made	• • •	Constant.	Constant.	Constant.	Constant.
3.	Dwelling Houses closed	• • •	_	1	_	1
4.	Plans passed for new houses	• • •		4	_	11
5.	Plans passed for new additions	•••	_	3	_	16
6.	Defective roofs repaired	•••	22	27	2	8
7.	Yards paved, repaired and drained	• • •	2	16	9	5
·8.	Animals improperly kept—Removed	• • •	7	_	4	6
9.	Defective drains repaired	•••	17	13	53	52
10.	Fruit-pickers' huts whitewashed	•••	88	150		324
11.	Water laid on and wells abolished	• • •	16	* * s	_ ·	. 1
12.	Old wells abolished		3	_	2	_
13.	Samples of water analysed	•••		_	3	_
14.	New ash pits or dust tins provided		_	40	19	44
15.	Overcrowding abated	• • •	_	9	2	5
16.	Cesspools abolished and houses connected sewer			2		202
17.	Coggnesia voncina	•••	23	_	20	7
18.	Norm constant marrided	•••	31	_	10	2
19.	Driver pits abolished	• • •	18	4	2	40
20.	Driving amortiad	• • •	Not obtainable	80	167	257
21.	Coggnools omntied			800	2469	1303
22.	Loads of sewage removed		,, ,,	3176	7721	5532
23.	Loady of asher and votage versered		"	1742	2091	Not obtainable
24.	Infections comment la III	•••	22	52	51	39
25.	Houses disinfected after infectious disease	• • •	29	63	56	42
26.	Schools disinfected after infectious disease	• • •	29	8	1	2
27.	Sanitary defects in Schools repaired		2	3		2
28.	No. of Cowsheds, Milk-sellers, &c., registered	• • •	11	6	14	12
29.	No of Balzohouses resistered		4	7	15	18
30.	No of Claughter houses in use	• • •	4	$\frac{1}{2}$	5	9
50.	No. of Staughter-Houses in use	•••	-	2	0	U

TABLE I.

Vital Statistics of Whole District during 1909 and previous years.

		Bira	rhs.	Тот	al Deaths the Di		D IN	TOTAL	Deaths of Non-	Deaths of Residents	Nett Deaths at all Ages belonging to		
				Under 1 Y	ear of Age.	At all	Ages.	DEATHS IN	residents	registered	the D	istrict.	
YEAR.	Population estimated to middle of each Year.	Number.	Rate.*	Number	Number Rate per 1000 Births registered.		Rate.*	PUBLIC INSTITU- TIONS IN THE DISTRICT.	registered. in Public Institu- tions in the District.	in Public Institu- tions beyond the District.	Number.	Rate.*	
1899	37897	1085	28.6	169	155	582	15.3	185	112	73	543	14:3	
1900	38544	1091	28.3	146	130	532	13.8	199	111	88	509	13.2	
1901	39193	1096	27.9	191	173	641	16.3	213	141	72	572	14.5	
1902	38080	1115	29-2	132	118	692	18.1	348	247	81	523	13.7	
1903	38739	1058	27.2	107	101	473	12.1	188	131	57	399	10.2	
1904	39305	1021	25.9	128	125	527	13.4	184	128	56	455	11.5	
1905	39881	980	24.5	96	97	498	12.4	224	159	65	404	10.1	
1906	40371	963	23.8	133	138	541	13.3	184	125	59	475	11.7	
1907	40984	1000	24.4	96	96	437	10.6	162	106	56	387	9.4	
1908	41525	954	22.9	93	97 5	448	10.7	151	93	58	413	9.9	
Averages for years 1899-1908.	39452	1036	26.3	129	123	537	13.6	204	135	66	468	11.8	
1909	42111	952	22.6	68	71	418	9.9	168	110	58	366	8.7	

^{*} Rates in Columns 4 and 8 should be calculated per 1,000 of the estimated gross population.

Area of District in acres (exclusive of area covered by water.) 38891.

Total population at all ages ... 39193

Number of inhabited houses ... 6937

Average number of persons per house ... 5.4

I. Institutions within the District receiving Sick and Infirm persons from outside the District.	II. Institutions outside the District receiving Sick and Infirm persons from the District.
 City of London Mental Hospital, Stone Metropolitan Asylum, Darenth Gore Farm Hospital (Scarlet Fever) Darenth St. Bartholomew's Hospital, Kettlewell Homes, Swanley Junction White Oak Schools, Eye Hospital, Swanley Junction Parkwood Hospital Convalescent Home, Horton Kirby, Swanley Junction. 	 Workhouse Infirmary, Dartford. Bow Arrow Isolation Hospital, Dartford. Livingstone Cottage Hospital, Dartford. Small-pox Hospital, Joyce Green, Dartford.

TABLE II.

Vital Statistics of separate Localities in 1909, and previous years.

	Deaths under 1 year,	4	\vdash	7		C 7	9	က	9	C 1	20	4	ಸರ
ham.	Deaths at all ages.	10		23	15	12	19	16	25	22	16	17	18
Farningham.	Births registered.	36	53	36	32	25	40	31	28	31	23	29	36
<u> </u>	Population estimated to middle of each year,	1239	1284	1328	1345	1358	1379	1394	1397	1406	1413	1330	1431
	Deaths under Lyear.		9	∞	6	6	∞	9	9	9	0	<u></u>	4
ord.	Deaths at all agges.	29	41	27	39	33	27	26	28	24	28	27	17
Eynsford.	Births registered.	65	63	63	44	64	59	49	46	47	47	48	51
	Population estimated to middle of each year.	1971	1986	2004	2009	2040	2072	2095	2113	2136	2155	2058	2189
	Deaths under 1 year.	9	62	4	က	23	\vdash	4	70		C7	က	62
th.	Deaths at all ages.	16	13	14	21	10		13	14		6	13	12
Darenth.	Births registered.	22	33	23	34	16	35	28	36	28	59	27	26
	Population esti- mated to middle of each year.	3354	3428	3493	3506	3512	3536	3551	3563	3580	3600	3512	3614
	Deaths under l year.	33	27	35	24	0	23	9	42	21	7	23	-
rd.	Deaths at all ages.	109	96	118	102	75	83	78	98	09	80	88	72
Crayford.	Births registered.	219	253	190	209	197	212	195	192	209	200	207	162
	Population estimated to middle of each year.	6310	6440	6572	6499	6801	6930	7047	7153	7302	7422	6865	7512
	Deaths under I year.	က		23		23	7	9	H	62	က	62	
	Deaths at all ages.		2	9	9	∞	70	13	9	9	6	2	9
Ash.	Births registered.	20	15	15	15	133	15	25	15	18		16	16
	Population esti- mated to middle a of each year.	610	809	809	617	623	632	644	653	999	199	623	929
	Deaths under I year.	169	146	191	132	107	128	96	133	96	93	129	89
District.	Deaths at all ages.	543	509	572	523	399	455	404	475	387	412	468	366
Whole Di	Births registered.	1085	1001	1096	1048	1058	1021	980	965	1000	954	1029	952
M	Population esti- mated to middle of each year.	37897	38544	39193	38080	38739	39395	39881	40371	40984	41525	39461	42111
NAMES OF LOCALI-	YEAR.	1899	1900	1901	1902	1903	1904	1905	9061	1907	1908	Averages of Years 1899 to 1908.	1909

TABLE II.

Vital Statistics of separate Localities in 1909, and previous years.

		The second secon							The second second					
		Destps ander					-			-				
	tone.	Deaths at all ages.		H	-		CJ			73				 i
	Lullingstone.	Births registered.	က	ေ	4	77	, 10	4	67	ಣ	4	72	က	
	Lı	Population esti- mated to middle of each year,	91	94	97	66	102	901	108	109	112	114	103	113
		Deaths under I year.	က	4	_	-	ಸ೦	5	9	7	1	C 7	4	Ø
-	eld.	Deaths at all ages.	8		16	11	15	∞	14		6	6		_
	Longfield	Births registered.	36	18	28	25	33	24	29	26	22	20	25	18
		Population esti- mated to middle of each year.	594	909	617	169	649	663	089	695	708	719	656	730
		Desths under		-	2			C7	က				-	
311	own.	Deaths at all ages.	4	10	õ	-	4		9	-	9	<u></u>	5	6
	Kingsdown	Births registered.		15	∞	13	17	12	10	12	6	6		7
	X	Population esti- mated to middle of each year.	488	497	202	518	531	536	540	551	554	556	528	554
		Deaths under lyear.	23	77	22	က	က	10	ಸ	4	70	ũ	4	က
	on.	Deaths at all sees.	14	15	22	24	16	25	26	24	17	27	21	17
	Horton.	Births registered.	40	24	40	34	45	47	44	34	51	39	40	39
		Population estimated to middle of each year.	1815	1848	1884	1894	1923	1945	1963	1973	2007	2019	1927	2041
		Deaths under I year.	1	shevenss	50									
	ey.	Deaths at all ages.	2	2	∞	ന 	20	ಣ	,	9	4	22	5	5
	Hartley.	Births registered.	9	<u></u>		9	7	10	∞	∞	9	00	6	9
		Population estimated to middle to of each year.	283	283	284	287	588	967	303	305	307	313	291	314
		Deaths under Lyear.	2/3		 4		-				,—			
	lam.	Deaths at all ages.	4	T	67	62		67	67	ಣ	-	4	63	72
	Fawkham.	Births registered.	4	4	70	00	6	50	20	10	ũ	20	9	4
		Population estimated to middle of each year.	268	272	276	282	290	293	596	303	304	305	289	307
	NAMES OF LOCALI- TIES.	Year.	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	Averages of years 1789 to 1908	1909

TABLE II.

Vital Statistics of separate Localities in 1909, and previous years.

	Deaths under I year.	12	10	10	10	10	6	H	70	9	2	∞	4
gton.	Deaths at all ages.	38	50	38	က	23	30	20	27	25	27	31	12
Wilmington.	Births registered.	55	56	19	72	69	52	58	99	48	59	59	47
Δ	Population esti- mated to middle of each year,	1890	1911	1932	1971	2017	2037	2075	2114	2137	2169	2025	2204
	Deaths under I year,	26	27	37	23	26	20	16	24	23	14	24	11
ombe.	Deaths at all ages.	74	2.2	106	88	92	95	75	90	73	81	83	59
Swanscombe.	Births registered.	214	1117	206	204	224	174	181	178	198	184	186	187
Š	Population esti- mated to middle of each year.	2689	9869	6975	7090	7222	7301	7407	7495	7620	7723	7266	7851
	Deaths under I year.	24	31	25	23	6	42	13	20	12	6	21	<u> </u>
-Hone	Deaths at all ages.	69	74	75	89	50	75	43	74	65	58	65	57
Sutton-at-Hone.	Births registered.	131	117	165	137	135	141	136	135	130	132	137	156
Sut	Population estimated to middle of each year.	4489	4569	4650	4719	4804	4870	4963	5029	5104	5178	4837	5277
	Deaths under l year.	26	30	8	20	14	21	21	22	13	15	20	91
ن	Deaths at all ages.	80	80	69	7:3	37	51	57	59	49	44	09	56
Stone.	Births registered.	163	157	166	183	17.4	160	156	165	150	150	162	165
	Population esti- mated to middle of each year.	4861	4996	5131	5242	5378	5487	5586	5693	5793	5899	5406	8009
	Deaths under l year.	4	77	9	77	က	4		9	က	4	က	4
leet.	Deaths at all ages.	12	12	16	10	91	10	14	8		6	13	16
Southfleet.	Births registered.	33	32	25	27	23	29	20	18	34	33	27	32
	Population estimasted to middle to of each year.	1082	1096		1128	1135	1154	1160	1160	1183	1205	1141	1221
	Deaths under l year.	H		-									
sy.	Deaths at all ages.	2		eman dap	က		77		\vdash	1	က		
Ridley.	Births registered.	CJ	4	23	က	C3	73	ന	-		က	62	က
	Population estimated to middle of each year.	64	62	64	64	99	99	69	69	69	69	99	72
NAMES OF LOCALITES.	YEAR.	1899	1900	1901	1902	1903	1904	1905	9061	1907	1908	Averages of Years 1899 to 1908	1909

TABLE III.

Cases of Infectious Disease notified during the Year 1909.

	to	removed Bospita				49		95		9						50
	100	Total ca						ĭΟ.								26 11 150
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each		Swanscor						28								3240
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Total Cases Notified in		euot8				010		12		<u></u>			7			38
tifie	Southfleet.						4	-								15
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	Not			all	olei	ht. Ier	Sil	rle	hu	eri	sda	tin	.be	ne		
				Small-pox	Cholera	Diphtheria (including Membranous croup	Erysipelas	Scarlet Fever	Typhus Fever	Enteric Fever	Relapsing Fever	Continued Fever	Puerperal Fever	Plague		
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TABLE IV.

Causes of, and Ages at Death, during the Year, 1909.

Total	Deaths whether of 'Residents' or non- Residents' in Public Institutions in the District.	6	168
	Core Farm.	ю iн i i i i i i i i i i i i i i i i i i	∞
	Darenth Asylum.	1	73
	City Asylum.	12 02 H H H H H H H H H H H H H H H H H H	53
·	wilmington,		12
ages.)	Swanscombe.	10 00 00 00 00 00 00 00 00 00 00 00 00 0	59
all	Sutton-at-Hone.	HH : HWHQ4Q : : : : : : : : : : : : : : : : : :	57
Localities (at	Зтопе,		99
alitie	Southfleet.	ран (ран (ран (ран (ран (ран (ран (ран (16
Loca	L'ullingstone.		
to	L'ongfield.		
ngin	Kingsdown.	m	6
belonging	Horton Kirby.		17
or	Hartley.		20
hs in	Fawkham.		67
Deaths	Farningham.	H W WH H W WHH4	18
	Eynstord.	0 HO HO HO O	17
	Darenth.	H : : : : : : : : : : : : : : : : : : :	12
	Crayford,	пппп кп гктог ппп гопо 2 1	72
	.ńsA		9
the ages.	65 and upwards.		121
belonging to t at subjoined a	25 and under 65.	H : : : : : : : : : : : : : : : : : : :	13 118 121
ongii ubjo	15 and under 25.	— — — — — — — — — — — — — — — — — — —	13
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in or trict	I and under 5.	: ca w : 4 - 1 - ca 4 - 1 : : : : : = - x	27
ths i Dis	Under I year.	1	89
Deaths in or whole District	All ages.	460-42-181881-242825	366 68 27
			<u> </u>
		ous croup) strongous.) strongous.) strongous.) parturition	
	TH.	Membranous croup) ury Tuberculosis disease disease despiratory organ ents of parturiti	
	OF DEATH	g Membranc za za nary Tube s diseases t disease Respirato idents of p	
	CAUSES O	Scarlet fever Whooping-cough Diptheria (including Membranous croup) Fever:—Enteric Epidemic influenza Diarrhœa Erysipelas Phthisis, (Pulmonary Tuberculosis.) Other tuberculosis disease Bronchitis Premunonia Pleurisy Other diseases of Respiratory organs Alcoholism Venereal diseases Premature birth Diseases and accidents of parturition Heart diseases Accidents Suicides All other causes All other causes	All causes
		X > H H H H H O O H H H O A > H H H A W A	

TABLE V.

Dartford Rural District. INFANTILE MORTALITY DURING THE YEAR 1910.

Deaths from stated causes in Weeks and Months under One Year of age.

Deaths from stated ca														<i></i>			
CAUSE OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 month.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.	7-8 Months,	8-9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	Total Deaths under One Year.
All Causes. Certified	18	6	7	3	34 1	12	4	2	2	2	4	1		2	$2 \dots$	1	66 2
i. Common Infectious Deseases. Chicken-pox Measles Scarlet Fever Diphtheria (including Membranous Croup) Whooping Cough						1											
ii. Diarrhœal Diseases. Diarrhœa, all forms Enterits, Muco-enterits Gastro-enteritis Gastro-intestinal Catarrh				1	1	1	1			2	2			1	• • • •		8
Premature Birth Congenital Defects Injury at Birth Want of Breast-milk, Starvation Atrophy, Debility, Marasmus	15 2 1 	4 1	4		25 3 1 	1 1 2											26 4 1 1 7
iv. Tuberculous Tuberculous Meningitis Tuberculous Peritonitis: Tabes Mesenterica Other Tuberculous Diseases												1			1		1 1
v. Other Causes. Rickets Meningitis (not tuberculous) Convulsions Bronchitis Tampo sitis			1		1		3	1			1			· · · · · · · · · · · · · · · · · · ·	1		1 2 9 2 1 3
	19	6	7	3	35	12	4	2	2	2	4	1		3	2	1	68

District (or sub-division) of Dartford Rural.

Births in the year { legitimate 931. illegitimate 21.

Deaths from all Causes at all Ages 366.

Population estimated to middle of 1909, 42111.

Deaths in the year of { legitimate infants 63. illegitimate infants 5.



DARTFORD:

SNOWDEN BROTHERS, "West Kent" Printing Works, High Street.



